



Attorney Docket # 044574-5061

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application:

John CARLSON *et al.*

Application No. 09/491,577

Filed: January 25, 2000

For: *DROSOPHILA* ODORANT RECEPTORS (Amended)

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)
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) Group Art Unit: 1646

)
) Examiner: Joseph Murphy

AMENDMENT AND RESPONSE UNDER 37 C.F.R. 1.116

This Amendment is filed in response to the Office Action dated March 12, 2002 (Paper No. 14).

Please amend this application as follows:

In the claims:

Please cancel claims 37-42.

Please replace claims 27, 43 and 44 with the following amended claims 27, 43 and 44:

27. (Amended) An isolated nucleic acid molecule that encodes the amino acid sequence of a *Drosophila* Odorant Receptor protein or fragment thereof, wherein the nucleic acid molecule comprises:

(i) nucleotides of SEQ ID NO: 31 which encode the amino acids which comprise the third extracellular domain;

(ii) nucleotides of SEQ ID NO: 31 which encode the amino acids which comprise the fourth extracellular domain; and

(iii) nucleotides of SEQ ID NO: 31 which encode the amino acids which comprise the fourth intracellular domain;

wherein the nucleic acid molecule encodes a protein or fragment thereof which has odorant receptor activity.

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